

FIG. 1a (PRIOR ART)

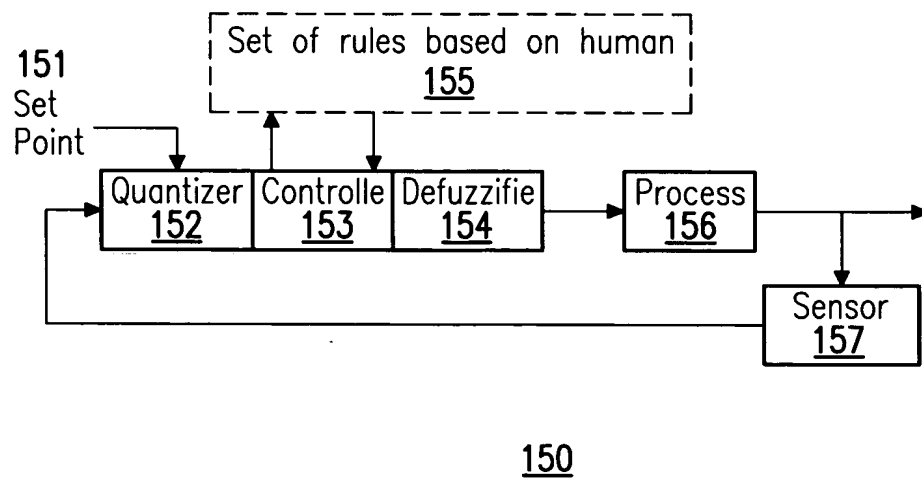


FIG. 1b (PRIOR ART)

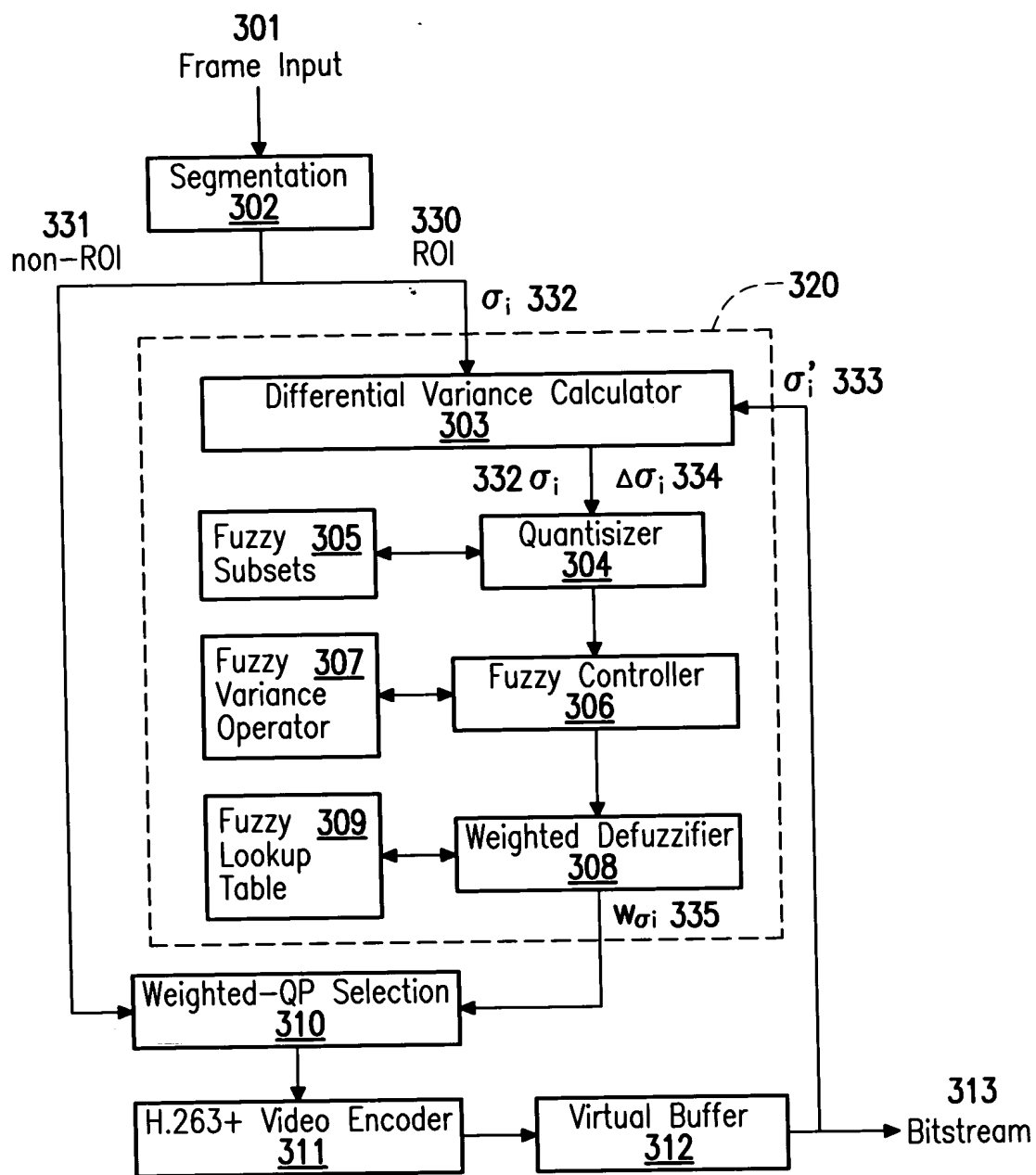


FIG. 2

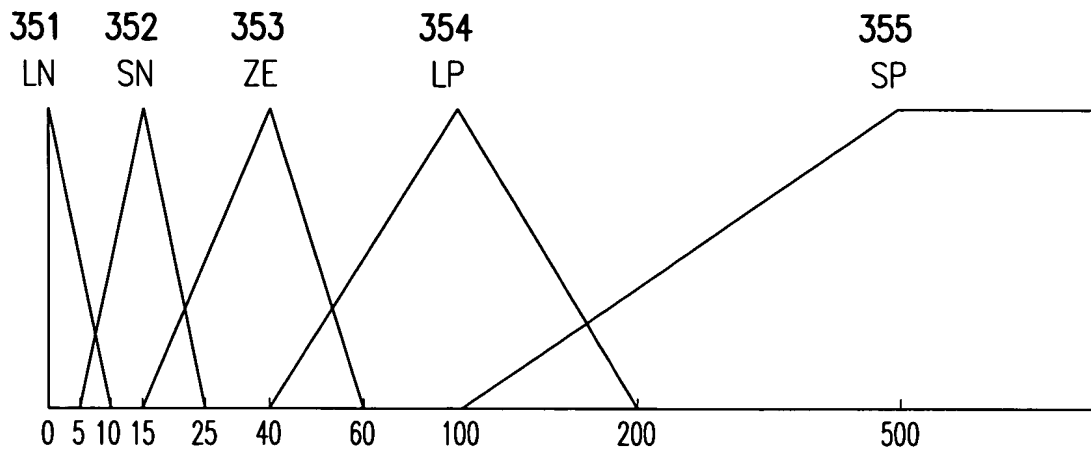


FIG. 3

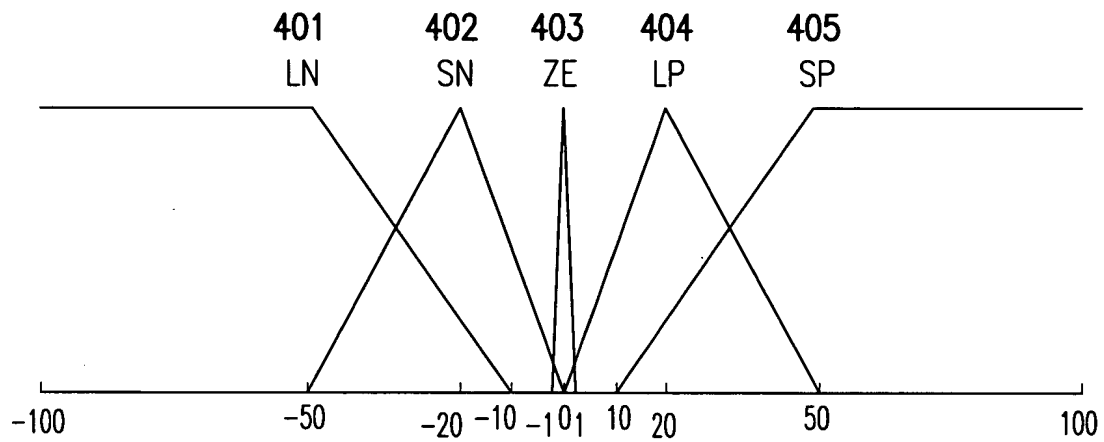


FIG. 4

Variance	Variance Change				
	LN	SN	ZE	SP	LP
LN	LP <sub>1</sub>	LP <sub>2</sub>	LP <sub>3</sub>	LP <sub>4</sub>	LP <sub>5</sub>
SN	SP <sub>6</sub>	SP <sub>7</sub>	SP <sub>8</sub>	SP <sub>9</sub>	SP <sub>10</sub>
ZE	SP <sub>11</sub>	SP <sub>12</sub>	ZE <sub>13</sub>	SN <sub>14</sub>	LN <sub>15</sub>
SP	ZE <sub>16</sub>	ZE <sub>17</sub>	SN <sub>18</sub>	SN <sub>19</sub>	LN <sub>20</sub>
LP	LN <sub>21</sub>	LN <sub>22</sub>	LN <sub>23</sub>	LN <sub>24</sub>	LN <sub>25</sub>
Control Rules					

FIG. 5

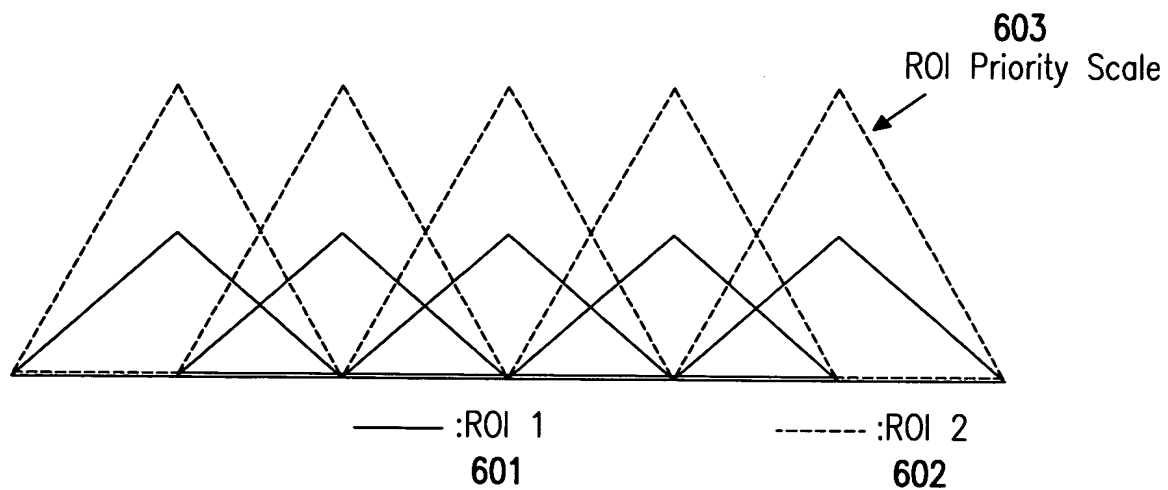


FIG. 6

	PSNR of whole frame (dB)	PSNR of ROI (dB)	Average Bit-Rate (bits)	Average Time (ms)	Skipped Frames
WR	31.45	30.00	2567	15.56	17
WA	29.80	34.32	2572	22.79	17
TF	28.73	34.69	2431	22.91	17
Fuzzy	28.82	35.14	2579	23.01	17

FIG. 7

	PSNR of whole frame (dB)	PSNR of ROI (dB)	Average Bit-Rate (bits)	Average Time (ms)	Skipped Frames
WR	36.37	28.94	1163	17.77	12
WA	34.19	31.83	1156	24.80	11
TF	33.18	31.85	1087	25.47	11
<b>Fuzzy</b>	<b>33.59</b>	<b>32.38</b>	<b>1154</b>	<b>26.07</b>	<b>11</b>

**FIG. 8**

	PSNR of whole frame (dB)	PSNR of ROI (dB)	Average Bit-Rate (bits)	Average Time (ms)	Skipped Frames
WR	28.09	28.32	2583	16.37	27
WA	26.81	30.14	2628	23.89	28
TF	26.87	30.19	2634	25.53	28
<b>Fuzzy</b>	<b>26.90</b>	<b>30.52</b>	<b>2607</b>	<b>26.22</b>	<b>27</b>

**FIG. 9**

	Number of MBs	PSNR PSNR (dB)	Avg. QP
ROI 1	12	32.65	8.43
ROI 2	6	29.40	13.17
ROI 3	6	28.75	17.83
All ROI	24	30.86	11.96
non-ROI	75	28.58	27.96

**FIG. 10**